



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#25  
Amber E  
J. White  
4-24-02

In re the Application of

Yasuhide OHASHI

Group Art Unit: 2811

Application No.: 09/028,456

Examiner: L. Thai

Filed: February 24, 1998

Docket No.: JAO 40656

For: SEMICONDUCTOR DEVICE AND ELECTRONIC DEVICE HAVING THE SAME

AMENDMENT UNDER 37 C.F.R. §1.111

Director of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

In reply to the Office Action mailed December 13, 2001, please amend the above-identified application as follows:

IN THE CLAIMS:

Please cancel claim 35 without prejudice or disclaimer.

Please replace claims 25 and 34 as follows:

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25. (Three Times Amended) A semiconductor device, comprising:

a semiconductor chip having a plurality of pads; and

a flexible substrate having an opening formed therein, the flexible substrate

having a common lead having an electrical connection branch connected to one of the pads without support by the flexible substrate, the common lead having a middle portion, the middle portion extending from two edges of the opening and continuously being positioned inside the opening without connection to the pads, and end portions of the common lead being formed on the flexible substrate.

34. (Three Times Amended) A semiconductor chip, comprising:

a plurality of pads for signal arranged in at least one first line;

E1

E2

E2  
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a plurality of pads for power source arranged in at least one second line different from the at least one first line; and

a plurality of pads for grounding,

wherein all of the pads for signal are disposed in areas closer to edges of the semiconductor chip than all of the pads for power source and grounding.

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REMARKS

Claims 24-25, 32-34 and 46-47 are pending. By this Amendment, claim 35 is canceled, and claims 25 and 34 are amended. Reconsideration based on the above amendments and following remarks is respectfully requested.

The attached Appendix includes marked-up copies of each rewritten claim (37 C.F.R. §1.121(c)(1)(ii)).

Applicant gratefully acknowledges that the Office Action indicates that claims 33 and 47 include allowable subject matter.

I. The Claims Define Allowable Subject Matter

The Office Action rejects claims 34-35 under 35 U.S.C. §102(b) as unpatentable over U.S. Patent No. 5,334,803 to Yamamura et al. (hereinafter "Yamamura") and alternatively over U.S. Patent No. 5,097,271 to Lee et al. (hereinafter "Lee"); claim 25 under 35 U.S.C. §102(e) as unpatentable over U.S. Patent No. 5,801,434 to Sugahara (hereinafter "Sugahara"); and claims 24, 32 and 46 under 35 U.S.C. §103(a) as unpatentable over Yamamura in view of U.S. Patent No. 5,252,853 to Michii (hereinafter "Michii"). The rejections are respectfully traversed.

With respect to claim 34, Yamamura does not disclose that signal pads 25, 26 are signal pads, nor does it disclose that pads 24 are power source and grounding pads.

Lee does not disclose that a plurality of pads for signals are arranged in at least one first line, nor does it disclose that a plurality of pads for a power source are arranged in at least one second line different from the at least one first line, as recited in claim 34.

With respect to claim 25, Sugahara fails to disclose that an electrical connection branch is not supported by a flexible substrate.

With respect to claim 24, Yamamura does not disclose that the signal pads 25, 26 are signal pads, nor does it disclose that pads 24 are power source and grounding pads.

With respect to claims 32 and 46, U.S. Patent No. 5,585,665 to Anjou et al. discloses nothing about the directions of common leads and other leads.

For at least these reasons, it is respectfully submitted that claims 24-25, 32, 34 and 46 are distinguishable over the applied art. Claims 33 and 47 which depend from claims 32 and 46, respectively, are likewise distinguishable over the applied art for at least the reasons discussed as well as for the additional features they recite. Withdrawal of the rejections under 35 U.S.C. §102(b), 35 U.S.C. §102(e) and 35 U.S.C. §103(a) is respectfully requested.

II. Conclusion

For at least the reasons discussed above, it is respectfully submitted that this application is in condition for allowance.

Should the Examiner believe that anything further is desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact Applicant's undersigned representative at the telephone number listed below.

Respectfully submitted,



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JAO:HNS/cfr

Attachments:

Appendix  
Petition for Extension of Time

Date: April 12, 2002

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